

WHAT IS CLAIMED AS NEW AND DESIRED TO BE SECURED BY  
LETTERS PATENT OF THE UNITED STATES IS:

1. Thermoinsulating mat of mineral fibers having a quasi-random orientation, comprising fibers, a great majority of which have a diameter between 1.5 and 4.5 micrometers and a length of 2 to 15 centimeters, wherein the mat has a density not greater than  $40 \text{ kg/m}^3$ .

2. Mat according to claim 1, wherein the mat has a resistance to compression, for a crushing of 10%, at least equal to  $0.5 \text{ kN/m}^2$ .

3. Mat according to claims 1 or 2, wherein the mat has a heat conductivity coefficient not greater than  $0.040 \text{ W/mK}$ .

4. Mat according to one of claims 1 or 2, formed by a double crimping of a layer of mineral fibers.

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